

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2822A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 220604A
Specific Speeds:
Dimensions:
Speed: 1780 rpm
Dia: 11.48 in
Impeller: J6E1A1
Ns: 2630
Nss: 11404
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 1.06 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

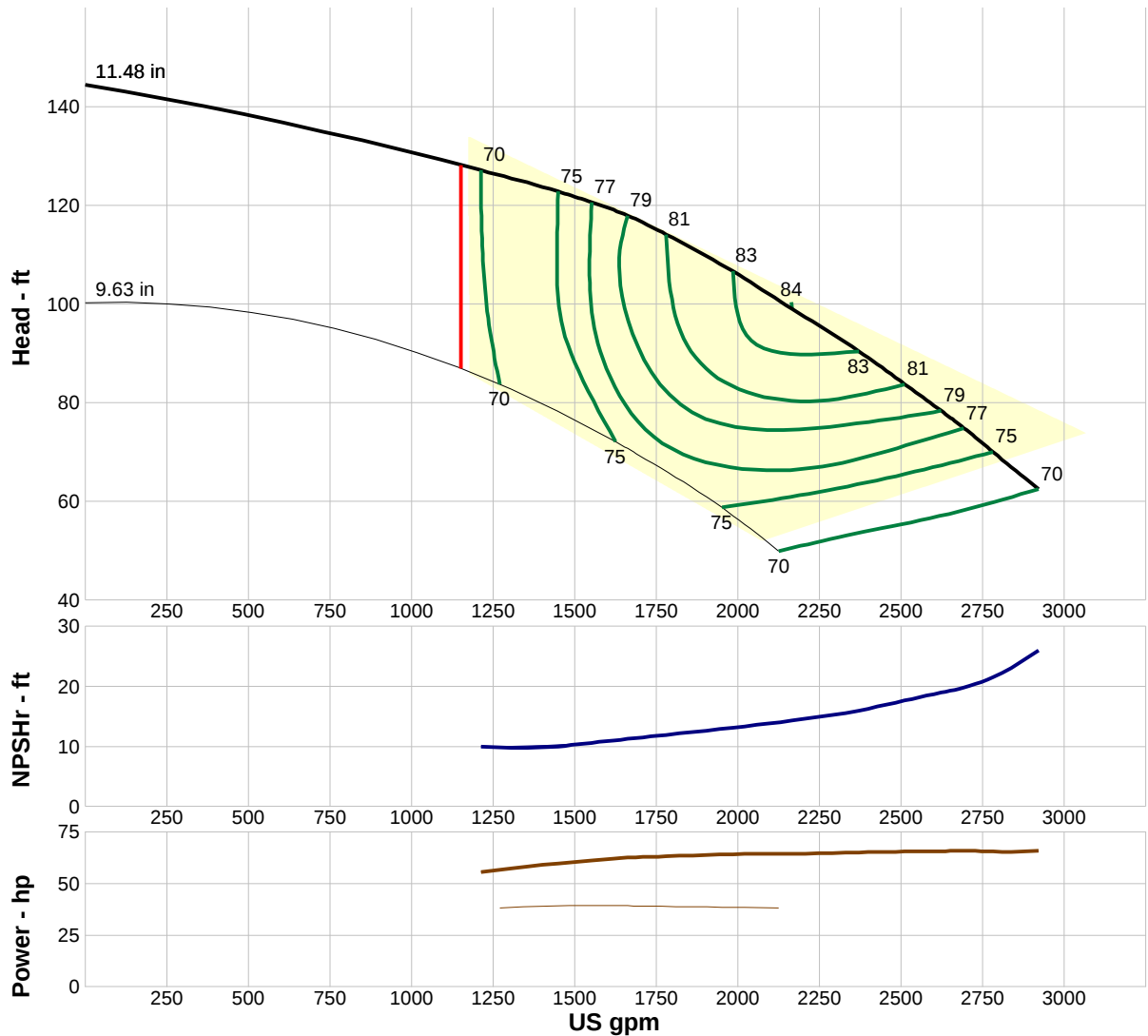
Fluid:

Water
Density: 62.25 lb/ft³
Viscosity: 1.105 cP
NPSHa: --- ft
Temperature: 60 °F
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 75 hp
Speed: 1800
Frame: 365T

---- Data Point ----	
Flow:	2165 US gpm
Head:	99 ft
Eff:	84%
Power:	64.4 hp
NPSHr:	14.3 ft
---- Design Curve ----	
Shutoff head:	144 ft
Shutoff dP:	62.4 psi
Min flow:	1150 US gpm
BEP:	84% @ 2165 US gpm
NOL power:	66.1 hp @ 2692 US gpm
-- Max Curve --	
Max power:	66.1 hp @ 2692 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2804	1780	68.8	74	65.6	22.3
2337	1780	91.8	83	65.1	15.7
1870	1780	111	82	63.8	12.5
1402	1780	124	74	59	10
935	1780	---	---	---	---